INDEX OF SUBJECTS

Allium cepa (bulb onions) stored at high temperature, effects of humidity on losses of (Stow), 81

Allium cepa (onions), resistance of 20 cultivars to rotting and sprouting during high-temperature storage (Stow), 201

Annotated bibliography of colour illustrated mineral deficiency symptoms in tropical crops, by J. B. D. Robinson, reviewed by C. C. Webster, 324

Arachis hypogea (groundnut) (I), effects of cycocel on crop plants in Sierra Leone (Das Gupta), 209

Arachis hypogaea (groundnuts) in northern Nigeria, effects of ground rock phosphate-sulphur mixture on yield and nutrient uptake of (Bromfield), 265

Beans, water relations of. III. Pod and seed yield of haricot beans under different irrigation in the Sudan (Salih and Khidir), 145

Biological control by natural enemies, by Paul DeBach, reviewed by M. E. Solomon, 159

Biological control of plant pathogens, by Kenneth F. Baker and R. James Cook, reviewed by A. T. K. Corke, 159

Boron nutrition on intensity of red spider mite attack on oil palm seedlings, effect of (Rajaratnam and Law Ing Hock), 59

Breeding plants for disease resistance, ed. by R. R. Nelson, reviewed by R. C. F. Macer, 75

Cajanus cajan (pigeon peas), effects of defoliation on (Hammerton), 177

Cajanus cajan (pigeon pea), effects of growth regulations on (Hammerton), 241

Camellia sinensis (tea) and *C. irrawadiensis* (Wilson's camellia), interspecific hybrids between. I. Morphology and cytology of F_1 hybrids (Bezbaruah), 13

Castorbean (*Ricinus communis* L.), correlations, path analyses and selection indices for (Salih and Khidir), 145

Cocoa progenies, susceptibility of to attack by insect species. I. Proportion of trees infested. II. Effects of canopy size on numbers of mealybugs (Bigger), 187, 193

Coffea arabica in Kenya, isotope studies on the efficient use of P-fertilizers by. I. Uptake and distribution of P^{32} from labelled KH_2PO_4 (Patel and Kabaara), 1

Cotton, Egyptian (*Gossypium barbadense*), effects of planting date and seeding rate on (El Fawel, El Okkia, Abdel-Bary and El-Khishen), 215

Corn: its origin, evolution and improvement, by Paul C. Mangelsdorf, reviewed by E. S. Bunting, 326

Development plan for semi-arid areas in Western Sudan (Adams), 277

Eggplant (*Solanum melongena*) in a subtropical climate, effects of low-temperature stress on fertility and fruiting of (Nothmann and Koller), 33

Gossypium barbadense (Egyptian cotton), effects of planting date and seeding rate on (El Fawel, El Okkia, Abdel-Bary and El-Khishen), 215

Groundnut (*Arachis hypogea*) (I), effects of cycocel on crop plants in Sierra Leone (Das Gupta), 209

Groundnuts (*Arachis hypogaea*) in northern Nigeria, effects of ground rock phosphate-sulphur mixture on yield and nutrient uptake of (Bromfield), 265

Handbook of selection and seed growing of oil plants, ed. by V. S. Pustovoit, reviewed by E. S. Bunting, 323

Insects: Studies in population management. International Congress of Entomology, ed. by P. W. Geier, L. R. Clark, D. J. Anderson and H. A. Nix, reviewed by T. Lewis, 78

Ipomoea batatas (sweet potato) cultivars, yield and yield components of six. I. Contribution of yield components to tuber yield. II. Variability and possible sources of variation (Lowe and Wilson), 33, 39

Isotope studies on the efficient use of P-fertilizers by *Coffea arabica* in Kenya. I. Uptake and distribution of P^{32} from labelled KH_2PO_4 (Patel and Kabaara), 1

Leaf curl virus disease of tomato in the Sudan, epidemics and chemical control of (Yassin), 161

Lycopersicon esculentum (tomatoes) in S.W. Nigeria, nutrient requirements of. I. Effects of N, P and K on yields. II. Foliar analysis for assessing N, P and K requirements (Sobulo, Fayemi and Agboola), 137

Maize, effects and interactions of 'package deal' inputs on yield and labour demand (Baker), 295

Maize in Malawi, establishing a mixed pasture under. I. Time of sowing. II. Method of sowing (Thomas and Bennett), 257, 273

Mineral nutrition of plants: principles and perspectives, by Emanuel Epstein, reviewed by C. Bould, 78

Moisture conservation by fallowing in Botswana (Whiteman), 305

Natural pastures in Brazil, effects of lime and fertilizer on (Olsen and Santos), 173

Nitrogen, effect of, on nodulation and yield of soybean (Olsen, Hamilton and Elkins), 289

Oil palm seedlings, effect of boron nutrition on intensity of red spider mite attack on (Rajaratnam and Law Ing Hock), 59

Onions (*Allium cepa*), resistance of 20 cultivars to rotting and sprouting during high-temperature storage (Stow), 201

Onions (*Allium cepa*) stored at high temperature, effects of humidity on losses of (Stow), 81

Oryza sativa (rice varieties), effect of age of seedlings at transplanting on growth and yield of (Singh and Bhattacharya), 65

Orysa sativa, undersowing rice with *Stylosanthes guyanensis*. I. Plant density. II. Delayed sowing time and crop variety. III. Nitrogen supply (Shelton and Humphreys), 89, 97, 103

Pearl lupin in England, a preliminary trial of (Masefield), 113

Pest control in groundnuts, ed. by S. D. Feakin, reviewed by R. G. Fennah, 325

Phytophthora disease in cocoa, ed. by P. H. Gregory, reviewed by Paul Holliday, 324

Pigeon pea (*Cajanus cajan*), effects of growth regulators on (Hammerton), 241

Pigeon pea, factors affecting plant stand in (Khan and Ashley), 315

Pigeon peas (*Cajanus cajan*), effects of defoliation on (Hammerton), 177

Rainfall characteristics and soil erosion in the rainforest area of western Nigeria (Wilkinson), 247

Rice, undersowing (*Oryza sativa*) with *Stylosanthes guyanensis*. I. Plant density. II. Delayed sowing time and crop variety. III. Nitrogen supply (Shelton and Humphreys), 89, 97, 103

Rice varieties (*Oryza sativa*), effect of age of seedlings at transplanting on growth and yield of (Singh and Bhattacharya), 65

Ricinus communis L. (castorbean), correlations, path analyses and selection indices for (Salih and Khidir), 145

Soil conditions and plant growth (10th ed.), by E. W. Russell, reviewed by J. K. R. Gasser, 78

Soil erosion and rainfall characteristics in the rainforest area of western Nigeria (Wilkinson), 247

Soil testing and plant analysis (revised), ed. by L. M. Walsh and J. D. Beaton, reviewed by R. D. Russell, 75

Solanum melongena (eggplant) in a subtropical climate, effects of low-temperature stress on fertility and fruiting of (Nothmann and Koller), 33

Sorghum grain hybrids in Nigeria (Andrews), 119

Sorghum (photosensitive) at Samaru, Northern Nigeria, effects of sowing date on growth, development and yield of (Kassam and Andrews), 227

Sorghum in the Sudan, effects of rainfall on yield of grain (Ali), 167

Soybean, effect of nitrogen on nodulation and yield of (Olsen, Hamilton and Elkins), 289

Soybean, responses of, to symbiosis and nitrogen fertilization under humid sub-tropical conditions (Pal and Saxena), 221

Soybean in Western Nigeria, effects of inoculation and nitrogen fertilizer on (Kang), 23

Spices. Tropical Products Institute Conference Proceedings, 1972, reviewed by G. E. Tidbury, 76

Statistics for biologists, by R. C. Campbell, reviewed by L. C. Chapas, 77

Stylosanthes guyanensis, undersowing rice (*Orysa sativa*) with. I. Plant density. II. Delayed sowing time and crop variety. III. Nitrogen supply (Shelton and Humphreys), 89, 97, 103

Sweet potato (*Ipomoea batatas*) cultivars, yield and yield components of six. I. Contribution of yield components to tuber yield. II. Variability and possible sources of variation (Lowe and Wilson), 33, 39

Tea (*Camellia sinensis*) and Wilson's camellia (*C. irrawadiensis*), interspecific hybrids between. I. Morphology and cytology of F_1 hybrids (Bezbaruah), 13

Theaceae, cytological investigations of the family. II. Cytology of a triploid tea (Bezbaruah), 17

Tomato in the Sudan, epidemics and chemical control of leaf curl virus disease of (Yassin), 161

Tomatoes (*Lycopersicon esculentum*) in S.W. Nigeria, nutrient requirements of. I. Effects of N, P and K on yields. II. Foliar analysis for assessing N, P and K requirements (Sobulo, Fayemi and Agboola), 137

Triploid tea, cytology of. II. Cytological investigations of the family Theaceae (Bezbaruah), 17

Weather and the yield of a crop (Devanathan), 183

Wilson's camellia (*C. irrawadiensis*) and tea (*C. sinensis*), interspecific hybrids between. I. Morphology and cytology of F_1 hybrids (Bezbaruah), 13

World protein resources, by Allen Jones, reviewed by D. Wilson

INDEX OF AUTHORS

ABDEL-BARY, A. A., *see* EL FAWAL, M. A.
ADAMS, MARTIN E. A development plan for semi-arid areas in western Sudan, 277
AGBOOLA, A. A., *see* SOBULO, R. A.
ALI, FAISAL M. Effects of rainfall on yield of grain sorghum in the Sudan, 167
ANDREWS, D. J. Sorghum grain hybrids in Nigeria, 119
ANDREWS, D. J., *see* KASSAM, A. H.

BAKER, E. F. I. Effects and interactions of 'package deal' inputs on yield and labour demand of maize, 295
BENNETT, A. J., *see* THOMAS, D.
BEZBARUAH, H. P. Cytological investigations of the family Theaceae. II. Cytology of a triploid tea, 17
BEZBARUAH, H. P. Interspecific hybrids between tea (*Camellia sinensis*) and Wilson's camellia (*C. irrawadiensis*). I. Morphology and cytology of F_1 hybrids, 13
BHATTACHARYA, A., *see* SINGH, D. N.
BIGGER, M. Susceptibility of two cocoa progenies to attack by insect species. I—Proportion of trees infested. II—Effects of canopy size on numbers of mealybugs, 187, 193
BOULD, C. Review of *Mineral nutrition of plants: principles and perspectives*, by Emanuel Epstein, 78
BROMFIELD, A. R. Effects of ground rock phosphate-sulphur mixture on yield and nutrient uptake of groundnuts (*Arachis hypogaea*) in northern Nigeria, 265
BUNTING, E. S. Review of *Corn; its origin, evolution and improvement*, by Paul C. Mangelsdorf, 326
BUNTING, E. S. Review of *Handbook of selection and seed growing of oil plants*, ed. by V. S. Pustovoit, 323

CHAPAS, L. C. Review of *Statistics for biologists*, by R. C. Campbell, 77
CORKE, A. T. K. Review of *Biological control of plant pathogens*, by Kenneth F. Baker and R. James Cook, 159

DAS GUPTA, D. K. Effects of cycocel on crop plants in Sierra Leone. I. Groundnut (*Arachis hypogea*), 209
DEVANATHAN, M. A. V. Weather and the yield of a crop, 183

EL FAWAL, M. A., EL OKKIA, A. F., ABDEL-BARY, A. A. and EL-KHISHEN. Effects of planting date and seeding rate on Egyptian cotton (*Gossypium barbadense*), 215
EL-KHISHEN, A. A., *see* EL FAWAL, M. A.
ELKINS, D. M., *see* OLSEN, F. J.
EL NADI, A. H. Water relations of beans. III. Pod and seed yield of haricot beans under different irrigation in the Sudan, 155
EL OKKIA, A. F., *see* EL FAWAL, M. A.

FAYEMI, A. A., *see* SOBULO, R. A.
FENNAH, R. G. Review of *Pest control in groundnuts*, 325

GASSER, J. K. R. Review of *Soil conditions and plant growth* (10th ed.), by E. W. Russell, 78

HAMILTON, G., *see* OLSEN, F. J.
HAMMERTON, JOHN L. Effects of defoliation on pigeon peas (*Cajanus cajan*), 177
HAMMERTON, JOHN L. Effects of growth regulators on pigeon pea (*Cajanus cajan*), 241
HOLLIDAY, PAUL. Review of *Phytophora disease of cocoa*, ed. by P. H. Gregory, 324
HUMPHREYS, L. R., *see* SHELTON, H. M.

KABAARA, A. M., *see* PATEL, R. Z.
KANG, B. T. Effects of inoculation and nitrogen fertilizer on soybean in western Nigeria, 23
KASSAM, A. H. and ANDREWS, D. J. Effects of sowing date on growth, development and yield of photosensitive sorghum at Samaru, northern Nigeria, 227
KHAN, T. N. and ASHLEY, J. M. Factors affecting plant stand in pigeon pea, 315
KHIDIR, M. O., *see* SALIH, S. H.
KOLLER, D., *see* NOTHMANN, J.

LAW ING HOCK, *see* RAJARATNAM, J. A.
LEWIS, T. Review of *Insects: studies in population management*. International Congress of Entomology; Canberra 1972, ed. by P. W. Geier, L. R. Clark, D. J. Anderson and H. A. Nix, 77
LOWE, S. B. and WILSON, L. A. Yield and yield components of six sweet potato (*Ipomoea batatas*) cultivars. I. Contribution of yield components to tuber yield. II. Variability and possible sources of variation, 39, 49

MACER, R. C. F. Review of *Breeding plants for disease resistance*, ed. by R. R. Nelson, 75
MASEFIELD, G. B. A preliminary trial of the pearl lupin in England, 113

NOTHMANN, J. and KOLLER, D. Effects of low-temperature stress on fertility and fruiting of eggplant (*Solanum melongena*) in a sub-tropical climate, 33

OLSEN, F. J., HAMILTON, G. and ELKINS, D. M. Effect of nitrogen on nodulation and yield of soybean, 289
OLSEN, F. J. and SANTOS, G. L. Effects of lime and fertilizer on natural pastures in Brazil, 173

PAL, U. R. and SAXENA, M. C. Responses of soybean to symbiosis and nitrogen fertilization under humid sub-tropical conditions, 221
PATEL, R. Z. and KABAARA, A. M. Isotope studies on the efficient use of P-fertilizers by *Coffea arabica* in Kenya. I. Uptake and distribution of P^{32} from labelled KH_2PO_4, 1

RAJARATNAM, J. A. and LAW ING HOCK. Effect of boron nutrition on intensity of red spider mite attack on oil palm seedlings, 59
RUSSELL, R. D. Review of *Soil testing and plant analysis* (revised), ed. by L. M. Walsh and J. D. Beaton, 75

SALIH, S. H. and KHIDIR, M. O. Correlations, path analyses and selection indices for castorbean (*Ricinus communis* L.), 145
SANTOS, G. L., *see* OLSEN, F. J.
SAXENA, M. C., *see* PAL, U. R.
SHELTON, H. M. and HUMPHREYS, L. R. Undersowing rice (*Oryza sativa*) with *Stylosanthes guyanensis*. I. Plant density. II. Delayed sowing time. III. Nitrogen supply, 89, 97, 103
SINGH, D. N. and BHATTACHARYA, A. Effect of age of seedlings at transplanting on growth and yield of rice varieties (*Oryza sativa*), 65
SOBULO, R. A., FAYEMI, A. A. and AGBOOLA, A. A. Nutrient requirements of tomatoes (*Lycopersicon esculentum*) in S.W. Nigeria. I. Effects of N, P and K on yields. II. Foliar analysis for assessing N, P and K requirements, 129, 137
SOLOMON, M. E. Review of *Biological control by natural enemies*, by Paul DeBach, 159
STOW, J. R. Effects of humidity on losses of bulb onions (*Allium cepa*) stored at high temperature, 81
STOW, J. R. Resistance of 20 cultivars of onions (*Allium cepa*) to rotting and sprouting during high-temperature storage, 201

THOMAS, D. and BENNETT, A. J. Establishing a mixed pasture under maize in Malawi. I. Time of sowing. II. Method of sowing 257, 273
TIDBURY, G. E. Review of *Spices*. Tropical Products Institute Conference Proceedings, 1972, 76

WEBSTER, C. C. Review of *An annotated bibliography of colour illustrated mineral deficiency symptoms in tropical crops*, by J. B. D. Robinson, 324
WHITEMAN, P. J. S. Moisture conservation by fallowing in Botswana, 305
WILKINSON, GUY E. Rainfall characteristics and soil erosion in the rainforest area of western Nigeria, 247
WILSON, D. Review of *World protein resources*, by Allen Jones, 326
WILSON, L. A., *see* LOWE, S. B.

YASSIN, A. M. Epidemics and chemical control of leaf curl virus disease of tomato in the Sudan, 161